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NEWS 4 JAN 27 A new search aid, the Company Name Thesaurus, available in CA/CAplus
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NEWS 14 APR 26 LITALERT now available on STN
NEWS 15 APR 27 NLDB: New search and display fields available
NEWS 16 May 10 PROUSDDR now available on STN
NEWS 17 May 19 PROUSDDR: One FREE connect hour, per account, in both May and June 2004
NEWS 18 May 12 EXTEND option available in structure searching
NEWS 19 May 12 Polymer links for the POLYLINK command completed in REGISTRY
NEWS 20 May 17 FRFULL now available on STN
NEWS 21 May 27 STN User Update to be held June 7 and June 8 at the SLA 2004 Conference
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FILE 'HOME' ENTERED AT 10:09:15 ON 01 JUN 2004

=> file uspatfull
COST IN U.S. DOLLARS
SINCE FILE
ENTRY
TOTAL
SESSION
0.21
0.21
FULL ESTIMATED COST

FILE 'USPATFULL' ENTERED AT 10:09:22 ON 01 JUN 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 1 Jun 2004 (20040601/PD)
FILE LAST UPDATED: 1 Jun 2004 (20040601/ED)
HIGHEST GRANTED PATENT NUMBER: US6745393
HIGHEST APPLICATION PUBLICATION NUMBER: US2004103464
CA INDEXING IS CURRENT THROUGH 1 Jun 2004 (20040601/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 1 Jun 2004 (20040601/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2004
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2004

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>>> USPAT2 is now available. USPATFULL contains full text of the
>>> original, i.e., the earliest published granted patents or
>>> applications. USPAT2 contains full text of the latest US
>>> publications, starting in 2001, for the inventions covered in
>>> USPATFULL. A USPATFULL record contains not only the original
>>> published document but also a list of any subsequent
>>> publications. The publication number, patent kind code, and
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>>> are displayed in the PI (Patent Information) field of USPATFULL
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>>>
>>> Use USPATALL when searching terms such as patent assignees,
>>> classifications, or claims, that may potentially change from
>>> the earliest to the latest publication.
```

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s mercapto compound?
36989 MERCAPTO
787359 COMPOUND?
L1 5521 MERCAPTO COMPOUND?
(MERCAPTO (W) COMPOUND?)

=> s ethyl (p) 3-mercaptop?
370146 ETHYL
3778865 3
82303 MERCAPTO?
8994 3-MERCAPTO?
(3 (W) MERCAPTO?)
L2 2809 ETHYL (P) 3-MERCAPTO?

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=> s perfume? or body deodorant? or shampoo? or detergent? or fabric softener? or cleaner?

30801 PERFUME?
1068695 BODY
8857 DEODORANT?
192 BODY DEODORANT?
(BODY (W) DEODORANT?)
14424 SHAMPOO?
83256 DETERGENT?
158661 FABRIC
15146 SOFTENER?
4203 FABRIC SOFTENER?
(FABRIC (W) SOFTENER?)
61843 CLEANER?
L3 161116 PERFUME? OR BODY DEODORANT? OR SHAMPOO? OR DETERGENT? OR FABRIC SOFTENER? OR CLEANER?

=> s 12 and 13
L4 317 L2 AND L3

=> s butyrate?
L5 38211 BUTYRATE?

=> s 15(p)L2
L6 65 L5 (P)L2

=> s 16 and 14
L7 10 L6 AND L4

=> d 1-10 ibib abs

L7 ANSWER 1 OF 10 USPATFULL on STN
ACCESSION NUMBER: 2004:24455 USPATFULL
TITLE: Packaging containing fragrance
INVENTOR(S): Popplewell, Lewis Michael, Morganville, NJ, UNITED STATES
Henson, Lulu S., Plainsboro, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004018293	A1	20040129
APPLICATION INFO.:	US 2002-202958	A1	20020725 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Joseph F. Leightner, Esq., INTERNATIONAL FLAVORS & FRAGRANCES INC., 521 West 57th Street, New York, NY, 10019		

NUMBER OF CLAIMS: 28
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 598

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Packaging materials and packages that transfer fragrances to foods and other products via the vapor phase are disclosed. The present invention provides a source of desired fragrance, a suitable environment for vapor transfer, and an appropriate food substrate to which flavor and fragrance is added. Examples of the source of fragrance can be a packaging film containing fragrance, a sachet of absorbed flavor material, and a flavor diffusing granule or an active system for delivering flavor vapor to the environment. Materials that are preferably treated using the present invention include snacks, confections, baked goods, fresh plant materials, cereals and beverages,

as well as non-food products. The time required for flavor transfer is dependent primarily on the volatility and concentration of the fragrances, absorptive capacity of the food, and the intensity of the flavor desired.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 2 OF 10 USPATFULL on STN

ACCESSION NUMBER: 2004:24440 USPATFULL

TITLE: Packaging containing fragrance

INVENTOR(S): Popplewell, Lewis Michael, Morganville, NJ, UNITED

STATES

Henson, Lulu S., Plainsboro, NJ, UNITED STATES

NUMBER	KIND	DATE
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PATENT INFORMATION: US 2004018278 A1 20040129

APPLICATION INFO.: US 2003-441574 A1 20030520 (10)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2002-202958, filed on 25 Jul 2002, PENDING

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Joseph F. Leightner, Esq., INTERNATIONAL FLAVORS & FRAGRANCES INC., 521 West 57th Street, New York, NY, 10019

NUMBER OF CLAIMS: 40

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 5 Drawing Page(s)

LINE COUNT: 836

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Packaging materials and packages that transfer fragrances to foods and other products via the vapor phase are disclosed. The present invention provides a source of desired fragrance, a suitable environment for vapor transfer, and an appropriate food substrate to which flavor and fragrance is added. Examples of the source of fragrance can be a packaging film containing fragrance, a sachet of absorbed flavor material, a tape or label applied to the inside of a package, and a flavor diffusing granule or an active system for delivering flavor vapor to the environment. Materials that are preferably treated using the present invention include snacks, confections, baked goods, fresh plant materials, cereals and beverages, as well as non-food products. The time required for flavor transfer is dependent primarily on the volatility and concentration of the fragrances, absorptive capacity of the food, and the intensity of the flavor desired.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 3 OF 10 USPATFULL on STN

ACCESSION NUMBER: 2002:332497 USPATFULL

TITLE: Use of 4-ethyloctanal in perfume and flavor compositions

INVENTOR(S): Sprecker, Mark A., Sea Bright, NJ, United States

Weiss, Richard Anthony, Livingston, NJ, United States

Pawlak, Manfred, Princeton, NJ, United States

Wright, John Reynolds, Princeton, NJ, United States

Ongteco, Martin, Teaneck, NJ, United States

PATENT ASSIGNEE(S): International Flavors & Fragrances Inc., New York, NY, United States (U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 6495186 B1 20021217

APPLICATION INFO.: US 2002-153505 20020521 (10)
 RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2001-964830, filed
 on 26 Sep 2001
 DOCUMENT TYPE: Utility
 FILE SEGMENT: GRANTED
 PRIMARY EXAMINER: Hardee, John
 LEGAL REPRESENTATIVE: Leightner, Joseph F.
 NUMBER OF CLAIMS: 7
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
 LINE COUNT: 310

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The use of 4-ethyloctanal as a flavor or fragrance chemical, suitable for use in creating fragrance and scents in items such as **perfumes**, colognes and personal care products, as well as a flavor ingredient for various products is disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 4 OF 10 USPATFULL on STN
 ACCESSION NUMBER: 1998:30888 USPATFULL
 TITLE: Process for demethylating dimethylsulfonium compounds
 INVENTOR(S): Hansen, Theo Adriaan, Groningen, Netherlands
 van der Maarel, Marc Jos E. C., Haren, Netherlands
 PATENT ASSIGNEE(S): Quest International B.V., Naarden, Netherlands
 (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5731177		19980324
	WO 9426918		19941124
APPLICATION INFO.:	US 1995-549772		19951114 (8)
	WO 1994-EP1640		19940516
			19951114 PCT 371 date
			19951114 PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	EP 1993-201389	19930514
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Lankford, Jr., Leon B.	
ASSISTANT EXAMINER:	Tate, Christopher R.	
LEGAL REPRESENTATIVE:	Cushman Darby & Cushman IP Group Pillsbury Madison & Sutro LLP	
NUMBER OF CLAIMS:	5	
EXEMPLARY CLAIM:	1	
LINE COUNT:	246	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Process for preparing S-methylmercapto and mercapto compounds comprising the step of demethylating a dimethylsulfonium compound of formula I to the corresponding S-methylmercapto compound of formula II, using a microorganism or alga which is capable of demethylating 3-dimethylsulfonium propionate (DMSP) to S-methyl-3-mercaptopropionate (MMPA), but which is incapable of further demethylating the latter compound to 3-mercaptopropionate with the same speed, or using an enzyme preparation derivable from such microorganism or alga: ##STR1## Preferably the group R denotes CH_{sub.2} --CH_{sub.2} --COOH (I is DMSP), CH_{sub.2} --CH(NH_{sub.2}) --COOH (I is S-dimethyl-cystein), CH_{sub.2} --CH_{sub.2} --CH (NH_{sub.2}) --COOH (I is S-methyl-methionine) or CH_{sub.2} --COOH (I is 2-dimethylsulfonium acetate), or a salt or ester of any of these. The microorganisms are preferably marine Desulfobacterium

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strains, especially a *Desulfobacterium autotrophicum*, *Desulfobacterium vacuolatum* or similar strain.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 5 OF 10 USPATFULL on STN

ACCESSION NUMBER: 77:66677 USPATFULL

TITLE: Flavoring with α -oxy(oxo)mercaptans

INVENTOR(S): Evers, William J., Red Bank, NJ, United States
Heinsohn, Jr., Howard H., Hazlet, NJ, United States
Vock, Manfred Hugo, Locust, NJ, United States

PATENT ASSIGNEE(S): International Flavors & Fragrances Inc., New York, NY, United States (U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 4064280 19771220

APPLICATION INFO.: US 1977-774060 19770303 (5)

RELATED APPLN. INFO.: Division of Ser. No. US 1976-723535, filed on 15 Sep 1976, now patented, Pat. No. US 4024289

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Golian, Joseph M.

LEGAL REPRESENTATIVE: Liberman, Arthur L., Wolffe, Franklin D.

NUMBER OF CLAIMS: 2

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 14 Drawing Figure(s); 9 Drawing Page(s)

LINE COUNT: 1065

AB The fruity flavor of a foodstuff is augmented or enhanced by the use of one or more α -oxy(oxo)mercaptans selected from the group consisting of:

3-mercpto-4-heptanol;

4-mercpto-5-nananol;

4-mercpto-5-nanone;

3-mercpto-2,6-dimethyl-4-heptanone;

2-mercptocyclododecanone-1; and

2-mercpto-3-pentanone

These compounds augment or enhance the green, grapefruit, fruity, buchu leaf oil-like, floral, green vegetable and/or minty aromas and grapefruit-like, green, citrus, bitter, lemon, buchu leaf oil-like, blackcurrant-like, green vegetable-like, and/or cooling notes of food flavors.

L7 ANSWER 6 OF 10 USPATFULL on STN

ACCESSION NUMBER: 77:66675 USPATFULL

TITLE: Flavoring with α -oxy(oxo)mercaptans

INVENTOR(S): Evers, William J., Red Bank, NJ, United States
Heinsohn Jr., Howard H., Hazlet, NJ, United States
Vock, Manfred Hugo, Locust, NJ, United States

PATENT ASSIGNEE(S): International Flavors & Fragrances Inc., New York, NY, United States (U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 4064278 19771220
APPLICATION INFO.: US 1977-774061 19770303 (5)
RELATED APPLN. INFO.: Division of Ser. No. US 1976-723535, filed on 15 Sep
1976, now patented, Pat. No. US 4024289
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Golian, Joseph M.
LEGAL REPRESENTATIVE: Liberman, Arthur L., Wolffe, Franklin D.
NUMBER OF CLAIMS: 4
EXEMPLARY CLAIM: 1,2
NUMBER OF DRAWINGS: 14 Drawing Figure(s); 9 Drawing Page(s)
LINE COUNT: 1087

AB The fruity flavor of a foodstuff is augmented or enhanced by the use of one or more α -oxy(oxo)mercaptans selected from the group consisting of:

3-mercaptopropanol;
4-mercaptopropanol;
4-mercaptopropanone;
3-mercaptopropan-2,6-dimethyl-4-heptanone;
2-mercaptopropanocyclododecanone-1; and
2-mercaptopropanone

These compounds augment or enhance the green, grapefruit, fruity, buchu leaf oil-like, floral, green vegetable and/or minty aromas and grapefruit-like, green, citrus, bitter, lemon, buchu leaf oil-like, blackcurrant-like, green vegetable-like, and/or cooling notes of food flavors.

L7 ANSWER 7 OF 10 USPATFULL on STN
ACCESSION NUMBER: 77:43496 USPATFULL
TITLE: Six membered heterocyclic oxathio compounds
INVENTOR(S): Wilson, Richard A., Westfield, NJ, United States
Pascale, John V., Jackson, NJ, United States
Vock, Manfred Hugo, Locust, NJ, United States
PATENT ASSIGNEE(S): International Flavors & Fragrances Inc., New York, NY,
United States (U.S. corporation)

NUMBER	KIND	DATE
US 4042601		19770816
US 1976-676390		19760412 (5)
RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1975-594310, filed on 8 Jul 1975, now Defensive Publication No.		

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Jaisle, Cecilia M. S.
LEGAL REPRESENTATIVE: Liberman, Arthur L., Haidt, Harold, Wolffe, Franklin D.
NUMBER OF CLAIMS: 2
EXEMPLARY CLAIM: 1,2
NUMBER OF DRAWINGS: 14 Drawing Figure(s); 14 Drawing Page(s)
LINE COUNT: 1732

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB One or more five or six membered oxathio heterocyclic compounds having one sulfur atom and one oxygen atom, such as an oxathiolane or an oxathiane, is used to alter, modify or enhance the flavor or aroma of a

foodstuff, chewing gum or medicinal product. Among said oxathio heterocyclic compounds are the seven novel compounds:

2,6-dimethyl-2-phenyl-1,3-oxathiane
 2-isobutyl-6-methyl-1,3-oxathiane
 Ethyl-2,6-dimethyl-1,3-oxathiane-2-acetate
 2,6-dimethyl-2-acetyl-1,3-oxathiane
 2-n-nonyl-6-methyl-1,3-oxathiane
 2-isobutyl-1,3-oxathiolane
 7-methyl(6-oxa-10-thiaspiro) 4.5-decane

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 8 OF 10 USPATFULL on STN
 ACCESSION NUMBER: 77:25483 USPATFULL
 TITLE: Flavoring with α -oxy(oxo)mercaptans
 INVENTOR(S): Evers, William J., Red Bank, NJ, United States
 Heinsohn, Jr., Howard H., Hazlet, NJ, United States
 Vock, Manfred Hugo, Locust, NJ, United States
 PATENT ASSIGNEE(S): International Flavors & Fragrances Inc., New York, NY,
 United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4024289		19770517
APPLICATION INFO.:	US 1976-723535		19760915 (5)
DOCUMENT TYPE:		Utility	
FILE SEGMENT:		Granted	
PRIMARY EXAMINER:		Golian, Joseph M.	
LEGAL REPRESENTATIVE:		Liberman, Arthur L., Wolffe, Franklin D.	
NUMBER OF CLAIMS:	2		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	14	Drawing Figure(s); 9 Drawing Page(s)	
LINE COUNT:	1077		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The fruity flavor of a foodstuff is augmented or enhanced by the use of one or more α -oxy(oxo)mercaptans selected from the group consisting of:

3-mercpto-4-heptanol;
 4-mercpto-5-nonalol;
 4-mercpto-5-nananone;
 3-mercpto-2,6-dimethyl-4-heptanone;
 2-mercptocyclododecanone-1; and
 2-mercpto-3-pentanone

These compounds augment or enhance the green, grapefruit, fruity, buchu leaf oil-like, floral, green vegetable and/or minty aromas and grapefruit-like, green, citrus, bitter, lemon, buchu leaf oil-like, blackcurrant-like, green vegetable-like, and/or cooling notes of food flavors.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 9 OF 10 USPATFULL on STN
 ACCESSION NUMBER: 76:30974 USPATFULL
 TITLE: Novel flavoring compositions and products containing
 2-methyl-3-thio-(2-methylbutyryl)-furan
 INVENTOR(S): Evers, William J., Red Bank, NJ, United States
 Heinsohn, Jr., Howard H., Hazlet, NJ, United States
 Mayers, Bernard J., Cliffwood Beach, NJ, United States
 Karoll, Elizabeth A., Old Bridge, NJ, United States
 PATENT ASSIGNEE(S): International Flavors & Fragrances Inc., New York, NY,
 United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3961093		19760601
APPLICATION INFO.:	US 1975-603934		19750812 (5)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1974-478369, filed on 11 Jun 1974, now patented, Pat. No. US 3917869 which is a continuation-in-part of Ser. No. US 1973-386451, filed on 7 Aug 1973, now patented, Pat. No. US 3873731		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Golian, Joseph M.		
LEGAL REPRESENTATIVE:	Liberman, Arthur L., Haidt, Harold, Wolffe, Franklin D.		
NUMBER OF CLAIMS:	2		
EXEMPLARY CLAIM:	1		
LINE COUNT:	385		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods for altering, modifying or enhancing the roasted, nutty taste and aroma of foodstuffs comprising incorporating with such foodstuffs a small but effective amount of 2-methyl-3-thio-(2-methylbutyryl)-furan having the formula: ##SPC1##

Together with compositions containing the 2-methyl-3-thio-(2-methylbutyryl)-furan for use in altering, modifying or enhancing such organoleptic properties.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 10 OF 10 USPATFULL on STN
 ACCESSION NUMBER: 75:4760 USPATFULL
 TITLE: FLAVORING AND AROMATISING WITH A FIVE OR SIX MEMBERED
 HETEROCYCLIC DITHIO COMPOUND
 INVENTOR(S): Wilson, Richard A., Edison, NJ, United States
 Mussinan, Cynthia, Bricktown, NJ, United States
 Katz, Ira, Elberon, NJ, United States
 Giacino, Christopher, Califon, NJ, United States
 Sanderson, Anne, Highlands, NJ, United States
 Shuster, Edward J., Brooklyn, NY, United States
 PATENT ASSIGNEE(S): International Flavors & Fragrances Inc., New York, NY,
 United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3863013		19750128
APPLICATION INFO.:	US 1972-272396		19720717 (5)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Golian, Joseph M.		
LEGAL REPRESENTATIVE:	Brooks Haidt & Haffner		

NUMBER OF CLAIMS: 8
EXEMPLARY CLAIM: 1
LINE COUNT: 606

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A five or six membered heterocyclic compound having two sulfur atoms, such as a dithiolane or a dithiane, is used to alter the flavor or aroma of a consumable material such as a foodstuff or **perfume**.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> s us3863013/pn
L8 1 US3863013/PN

=> s 17 and 18
L9 1 L7 AND L8

=> d kwic

L9 ANSWER 1 OF 1 USPATFULL on STN
PI US 3863013 19750128 <--
AB . . . or a dithiane, is used to alter the flavor or aroma of a consumable material such as a foodstuff or **perfume**.
SUMM . . . dithiolane or a dithiane to alter the flavor and/or aroma characteristics of a consumable material such as a foodstuff, or **perfume**.
SUMM The term "consumable material" as used herein includes various products that are utilized by natural persons and includes foodstuffs and **perfumes**.
SUMM The term "**perfume**" as used herein means a mixture of compounds, including for example, natural oils, synthetic oils, alcohols, aldehydes, ketones, esters, lactones, . . . hydrocarbons which are admixed so that the combined odors of the individual components produce a pleasant or desired fragrance. Such **perfume** compositions usually contain: (a) a main note, (b) modifiers which round-off and accompany the main note; (c) fixatives which include odorous substances which lend a particular note to the **perfume** throughout all stages of evaporation, and substances which retard evaporation; and (d) top-notes which are usually low-boiling, fresh-smelling materials.
SUMM Generally in use the dithio heterocyclic compound is admixed with one or more auxiliary flavoring or **perfume** adjuvants. The precise adjuvants employed will depend upon the ultimate use contemplated and the organoleptic character desired. Flavoring adjuvants are. . .
SUMM Among the preferred flavoring adjuvants are: methyl thiazole alcohol [4-methyl-5-(β -hydroxyethyl)thiazole], 2-methyl butanethiol, 4-mercaptop-2-butanone, 3-mercaptop-4-pentanone, 1-mercaptop-2-propanone, benzaldehyde, furfural, furfuryl alcohol, 2-mercaptop propionic acid, 2-pentene, alkyl pyrazines such as methyl pyrazine, 2-ethyl-3-methyl pyrazine and tetramethyl pyrazine, polysulfides such as dipropyl disulfide and methyl benzyl disulfide, alkyl thiophenes such as 2-butyl thiophene and 2,3-dimethyl thiophene, 5-methyl furfural, acetyl furan, 2,4-decadienal, guiacol, phenyl acetaldehydes, δ -decalactone, d-limonene, acetoin, amyl acetate, maltol, ethyl butyrate, levulinic acid, piperonal, ethyl acetate, n-octanal, n-pentanal, hexanal and diacetyl. When used as a stewed vegetable flavoring it is especially preferred to combine the. . .
SUMM Auxiliary **perfume** adjuvants include carriers, vehicles, solvents, dispersants, emulsifiers, surface-active agents, aerosol propellants, and the like. In **perfume** compositions, the individual components contribute their particular olfactory

characteristics, but the overall effect of the **perfume** composition will usually at least be the sum of the effect of each ingredient. Thus, the dithio heterocyclic compounds of this invention can be used to alter the aroma characteristics of a **perfume** composition, for example, by highlighting or moderating the olfactory reaction contributed by another ingredient of the composition.

SUMM The dithio heterocyclic compounds of this invention can also be added to **perfume** compositions in their pure form or they can be added to mixtures of materials in fragrance-imparting compositions to provide a desired fragrance character to a finished **perfume** material. The **perfume** and fragrance compositions obtained according to this invention are suitable in a wide variety of **perfumed** articles and can also be used to improve, enhance, modify, alter or reinforce fragrance materials. It will thus be appreciated.

SUMM The amount of one or more compounds of this invention which will be effective in **perfume** compositions depends on many factors, including the other ingredients, cost, their amounts and the fragrance and other effects desired.

SUMM When used as a **perfume** ingredient, the dithio heterocyclic compound will represent from about 0.001 percent to about 0.05 percent of the total weight of the **perfume** oils present in the composition. Even lesser quantities may be used to intensify or augment and enhance various types of fragrance compounds, the odors of which may be desired to be imparted to colognes, **perfumes**, bath oils, powders, and other cosmetic products.

DETD The following **perfume** composition is prepared:

=> d his

(FILE 'HOME' ENTERED AT 10:09:15 ON 01 JUN 2004)

FILE 'USPATFULL' ENTERED AT 10:09:22 ON 01 JUN 2004

L1 5521 S MERCAPTO COMPOUND?

L2 2809 S ETHYL(P)3-MERCAPTO?

L3 161116 S PERFUME? OR BODY DEODORANT? OR SHAMPOO? OR DETERGENT? OR FABR

L4 317 S L2 AND L3

L5 38211 S BUTYRATE?

L6 65 S L5(P)L2

L7 10 S L6 AND L4

L8 1 S US3863013/PN

L9 1 S L7 AND L8

=> s us5008432/pn

L10 1 US5008432/PN

=> s l10 and l3

L11 0 L10 AND L3

=> s flavor?

L12 73645 FLAVOR?

=> s l12 and l10

L13 0 L12 AND L10

=> d l10 ibib abs

L10 ANSWER 1 OF 1 USPATFULL on STN

ACCESSION NUMBER: 91:30654 USPATFULL

TITLE: Production of mercapto compounds

INVENTOR(S): Roberts, John S., Bartlesville, OK, United States

PATENT ASSIGNEE(S): Phillips Petroleum Company, Bartlesville, OK, United

States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 5008432		19910416	<--
APPLICATION INFO.:	US 1985-754058		19850711	(6)
DOCUMENT TYPE:	Utility			
FILE SEGMENT:	Granted			
PRIMARY EXAMINER:	Garner, Vivian			
LEGAL REPRESENTATIVE:	Umphelett, A. W.			
NUMBER OF CLAIMS:	5			
EXEMPLARY CLAIM:	1			
LINE COUNT:	470			

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Activated olefinically unsaturated organic compounds such as esters, acids, ketones, nitriles, and the like, are reacted with hydrogen sulfide in the presence of at least one of magnesium oxide and anion exchange resins catalysts to produce saturated sulfur-containing compounds. In a specific embodiment, unsaturated carboxylates are converted in high yields to mercaptoalkanoates.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> s perfume? or fragrance?

30801 PERFUME?

25049 FRAGRANCE?

L14 47569 PERFUME? OR FRAGRANCE?

=> s l14 and l10

L15 0 L14 AND L10

=> s odor?

L16 55515 ODOR?

=> s l16 and l10

L17 0 L16 AND L10

=> s agent?

L18 710385 AGENT?

=> s l18 and l10

L19 1 L18 AND L10

=> d kwic

L19 ANSWER 1 OF 1 USPATFULL on STN

PI US 5008432 19910416

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CLM What is claimed is:

. . . sulfoxide through a reaction zone comprising a bed of magnesium oxide catalyst which optionally contains silica or other suitable binding agent under reaction conditions which produce saturated sulfur compounds and separating excess hydrogen sulfide from the product mixture removed from said. . .

=> s mercaptoalkanotes?

L20 0 MERCAPTOALKANOTES?

=> s mercaptoalkanoate?

L21 89 MERCAPTOALKANOATE?

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=> d his

(FILE 'HOME' ENTERED AT 10:09:15 ON 01 JUN 2004)

FILE 'USPATFULL' ENTERED AT 10:09:22 ON 01 JUN 2004

L1 5521 S MERCAPTO COMPOUND?
L2 2809 S ETHYL(P)3-MERCAPTO?
L3 161116 S PERFUME? OR BODY DEODORANT? OR SHAMPOO? OR DETERGENT? OR FABR
L4 317 S L2 AND L3
L5 38211 S BUTYRATE?
L6 65 S L5(P)L2
L7 10 S L6 AND L4
L8 1 S US3863013/PN
L9 1 S L7 AND L8
L10 1 S US5008432/PN
L11 0 S L10 AND L3
L12 73645 S FLAVOR?
L13 0 S L12 AND L10
L14 47569 S PERFUME? OR FRAGRANCE?
L15 0 S L14 AND L10
L16 55515 S ODOR?
L17 0 S L16 AND L10
L18 710385 S AGENT?
L19 1 S L18 AND L10
L20 0 S MERCAPTOALKANOTES?
L21 89 S MERCAPTOALKANOATE?

=> s perfume? or body deodorant? or shampoo? or detergent? or fabric softener? or cleaner?

30801 PERFUME?
1068695 BODY
8857 DEODORANT?
192 BODY DEODORANT?
(BODY(W) DEODORANT?)
14424 SHAMPOO?
83256 DETERGENT?
158661 FABRIC
15146 SOFTENER?
4203 FABRIC SOFTENER?
(FABRIC(W) SOFTENER?)
61843 CLEANER?

L22 161116 PERFUME? OR BODY DEODORANT? OR SHAMPOO? OR DETERGENT? OR FABRIC
SOFTENER? OR CLEANER?

=> s l22 and l21

L23 10 L22 AND L21

=> d 10 ibib abs

L23 ANSWER 10 OF 10 USPATFULL on STN

ACCESSION NUMBER: 85:26806 USPATFULL
TITLE: Ore flotation and flotation agents for use therein
INVENTOR(S): Bresson, Clarence R., c/o French, Hughes and Doescher,
P.O. Box 2443, Bartlesville, OK, United States 74005
Louthan, Rector P., c/o French, Hughes and Doescher,
P.O. Box 2443, Bartlesville, OK, United States 74005

NUMBER KIND DATE

PATENT INFORMATION: US 4515687 19850507
APPLICATION INFO.: US 1984-608825 19840510 (6)
DOCUMENT TYPE: Utility

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FILE SEGMENT: Granted
PRIMARY EXAMINER: Lieberman, Paul
ASSISTANT EXAMINER: Wax, Robert A.
NUMBER OF CLAIMS: 34
EXEMPLARY CLAIM: 11, 14, 22
LINE COUNT: 518

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Ammonium dialkylaminoalkyl (thiocarbonyldithio) alkanoates, alkali metal dialkylaminoalkyl (thiocarbonyldithio) alkanoates, their use as flotation agents, and a process for the production of these novel compositions are disclosed. N,N-dialkylaminoalkyl **mercaptoalkanoate**, its use as an intermediate in the production of the novel ammonium dialkylaminoalkyl (thiocarbonyldithio) alkanoates and alkali metal dialkylaminoalkyl (thiocarbonyldithio) alkanoates, and a process for the production of this novel composition are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=>

CH₃ sub. 3 (SH) CHCH₂ sub. 2 COOCH₂ sub. 2 CH₃ sub. 3. The present invention still further pertains to a perfuming composition or a **perfumed** article containing as an active perfuming ingredient, **ethyl 3-mercaptopropionate** represented by the formula, CH₃ sub. 3 (SH) CHCH₂ sub. 2 COOCH₂ sub. 2 CH₃ sub. 3. The present invention also pertains to a method for preparing **ethyl 3-mercaptopropionate** which comprises reacting ethyl crotonate with sodium hydrogen sulfide and sodium bicarbonate to form the disulfide dimer of **ethyl 3-mercaptopropionate** followed by reducing the disulfide dimer to yield **ethyl 3-mercaptopropionate**.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 2 OF 3 USPATFULL on STN

ACCESSION NUMBER: 2003:92788 USPATFULL

TITLE: **Ethyl 3-mercaptopropionate**

as a flavoring or fragrance agent and methods for preparing and using same

INVENTOR(S): Yusuf, Amir, Clapton, UNITED KINGDOM

Dewis, Mark Lawrence, Woodford Green, UNITED KINGDOM

Edwards, David John, Leyton, UNITED KINGDOM

Kendrick, Lesley, Ilford, UNITED KINGDOM

Wright, Maria, Montvale, NJ, UNITED STATES

PATENT ASSIGNEE(S): Bush Boake Allen Inc., Montvale, NJ, 07645 (non-U.S. corporation)

NUMBER	KIND	DATE
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US 2003064146 A1 20030403

US 2002-265861 A1 20021007 (10)

Continuation of Ser. No. US 2001-7095, filed on 4 Dec 2001, PENDING

Appeal. D.J.S.

NUMBER	DATE
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GB 2000-9769 20000419

WO 2001-US12518 20010417

PRIORITY INFORMATION:

Utility

DOCUMENT TYPE:

APPLICATION

FILE SEGMENT:

Richard R. Muccino, 758 Springfield Avenue, Summit, NJ, 07901

LEGAL REPRESENTATIVE:

07901

NUMBER OF CLAIMS:

19

EXEMPLARY CLAIM:

1

LINE COUNT:

1689

AB This invention pertains to a method for flavoring an ingestible composition with a flavoring agent in organoleptically purified form, unaccompanied by substances of natural origin present in mango. The flavoring agent may be used in a wide variety of ingestible vehicles such as chewing gum compositions, hard and soft confections, dairy products, beverage products including juice drinks and juice products, green vegetable and chicken products, and the like. The present invention also pertains to an ingestible composition comprising an ingestible vehicle and an organoleptically effective amount of the purified flavoring agent. The present invention further pertains to **ethyl 3-mercaptopropionate** represented by the formula, CH₃ sub. 3 (SH) CHCH₂ sub. 2 COOCH₂ sub. 2 CH₃ sub. 3, in purified form, unaccompanied by substances of natural origin present in mango. The present invention still further pertains to a method to confer, enhance, improve, or modify the **odor** properties of a perfuming composition or a **perfumed** article, which comprises adding to the perfuming composition or **perfumed** article, **ethyl**

3-mercaptopropionate represented by the formula, CH₃.sub.3(SH)CHCH₂COOCH₂CH₂.sub.3. The present invention still further pertains to a perfuming composition or a **perfumed** article containing as an active perfuming ingredient, **ethyl 3-mercaptopropionate** represented by the formula, CH₃.sub.3(SH)CHCH₂COOCH₂CH₂.sub.3. The present invention also pertains to a method for preparing **ethyl 3-mercaptopropionate** which comprises reacting ethyl crotonate with sodium hydrogen sulfide and sodium bicarbonate to form the disulfide dimer of **ethyl 3-mercaptopropionate** followed by reducing the disulfide dimer to yield **ethyl 3-mercaptopropionate**.

L3 ANSWER 3 OF 3 USPATFULL on STN

ACCESSION NUMBER: 2002:272546 USPATFULL

TITLE: **Ethyl 3-mercaptopropionate**

as a flavoring or fragrance agent and methods for preparing and using same

INVENTOR(S): Dewis, Mark Lawrence, Woodford Green, UNITED KINGDOM

Edwards, David John, London, UNITED KINGDOM

Kendrick, Lesley, Essex, UNITED KINGDOM

Wright, Maria, Montvale, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002150662	A1	20021017
APPLICATION INFO.:	US 2001-7095	A1	20011204 (10)

ABN

	NUMBER	DATE
PRIORITY INFORMATION:	GB 2000-9769	20000419
	WO 2001-US12518	20010417

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE: Richard R. Muccino, 758 Springfield Avenue, Summit, NJ, 07901

NUMBER OF CLAIMS: 19

EXEMPLARY CLAIM: 1

LINE COUNT: 1686

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention pertains to a method for flavoring an ingestible composition with a flavoring agent in organoleptically purified form, unaccompanied by substances of natural origin present in mango. The flavoring agent may be used in a wide variety of ingestible vehicles such as chewing gum compositions, hard and soft confections, dairy products, beverage products including juice drinks and juice products, green vegetable and chicken products, and the like. The present invention also pertains to an ingestible composition comprising an ingestible vehicle and an organoleptically effective amount of the purified flavoring agent. The present invention further pertains to **ethyl 3-mercaptopropionate** represented by the formula, CH₃.sub.3(SH)CHCH₂COOCH₂CH₂.sub.3, in purified form, unaccompanied by substances of natural origin present in mango. The present invention still further pertains to a method to confer, enhance, improve, or modify the **odor** properties of a perfuming composition or a **perfumed** article, which comprises adding to the perfuming composition or **perfumed** article, **ethyl 3-mercaptopropionate** represented by the formula, CH₃.sub.3(SH)CHCH₂COOCH₂CH₂.sub.3. The present invention still further pertains to a perfuming composition or a **perfumed** article containing as an active perfuming ingredient, **ethyl 3-mercaptopropionate**.

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3-mercaptopropionate represented by the formula,
CH₃CH₂CH₂(SH)CH₂COOCH₂CH₂CH₃. The present invention also
pertains to a method for preparing **ethyl 3-**
mercaptopropionate which comprises reacting ethyl crotonate with
sodium hydrogen sulfide and sodium bicarbonate to form the disulfide
dimer of **ethyl 3-mercaptopropionate** followed
by reducing the disulfide dimer to yield **ethyl 3-**
mercaptopropionate.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 7 OF 20 USPATFULL on STN
 ACCESSION NUMBER: 76:57059 USPATFULL
 TITLE: Sulfosuccinate derivatives as **detergent**
 builders
 INVENTOR(S): Lamberti, Vincent, Upper Saddle River, NJ, United
 States
 PATENT ASSIGNEE(S): Lever Brothers Company, New York, NY, United States
 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3987043		19761019
APPLICATION INFO.:	US 1975-589961		19750624 (5)
RELATED APPLN. INFO.:	Division of Ser. No. US 1973-394613, filed on 5 Sep 1973, now patented, Pat. No. US 3925375 which is a division of Ser. No. US 1971-156933, filed on 25 Jun 1971, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Thomas, Jr., James O.		
ASSISTANT EXAMINER:	Chan, Nicky		
LEGAL REPRESENTATIVE:	Grant, Arnold		
NUMBER OF CLAIMS:	3		
EXEMPLARY CLAIM:	1		
LINE COUNT:	756		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel salts of α -substituted- β -sulfosuccinic acids having the general formula: ##EQU1## wherein R is hydrogen or an organic moiety, Z is selected from the group consisting of O, S, SO, SO₂, N and NO and M is an alkali metal, ammonium or substituted ammonium cations, useful as **detergents** and/or **detergent** builders and **detergent** compositions containing same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 8 OF 20 USPATFULL on STN
 ACCESSION NUMBER: 76:54418 USPATFULL
 TITLE: Sulfosuccinate derivatives as **detergent**
 builders
 INVENTOR(S): Lamberti, Vincent, Upper Saddle River, NJ, United
 States
 PATENT ASSIGNEE(S): Lever Brothers Company, New York, NY, United States
 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3984408		19761005
APPLICATION INFO.:	US 1975-578705		19750519 (5)
RELATED APPLN. INFO.:	Division of Ser. No. US 1974-484741, filed on 1 Jul 1974, now patented, Pat. No. US 3922271 which is a division of Ser. No. US 1973-394613, filed on 5 Sep 1973, now patented, Pat. No. US 3925375 which is a division of Ser. No. US 1971-156933, filed on 25 Jun 1971, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Thomas, Jr., James O.		
ASSISTANT EXAMINER:	Chan, Nicky		
LEGAL REPRESENTATIVE:	Grant, Arnold		

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NUMBER OF CLAIMS: 1
EXEMPLARY CLAIM: 1
LINE COUNT: 758

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel salts of α -substituted- β -sulfosuccinic acids having the general formula: ##EQU1## wherein R is hydrogen or an organic moiety, Z is selected from the group consisting of O, S, SO, SO₂, N and NO and M is an alkali metal, ammonium or substituted ammonium cations, useful as **detergents** and/or **detergent** builders and **detergent** compositions containing same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 9 OF 20 USPATFULL on STN
ACCESSION NUMBER: 76:46602 USPATFULL
TITLE: Sulfosuccinate derivatives as **detergent** builders
INVENTOR(S): Lamberti, Vincent, Upper Saddle River, NJ, United States
PATENT ASSIGNEE(S): Lever Brothers Company, New York, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3976642		19760824
APPLICATION INFO.:	US 1975-578704		19750519 (5)
RELATED APPLN. INFO.:	Division of Ser. No. US 1974-484741, filed on 1 Jul 1974, now patented, Pat. No. US 3922271 which is a division of Ser. No. US 1973-394613, filed on 5 Sep 1973, now patented, Pat. No. US 3925375 which is a division of Ser. No. US 1971-156933, filed on 25 Jun 1971, now abandoned		

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Thomas, Jr., James O.
ASSISTANT EXAMINER: Chan, Nicky
LEGAL REPRESENTATIVE: Grant, Arnold
NUMBER OF CLAIMS: 5
EXEMPLARY CLAIM: 1
LINE COUNT: 768

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel salts of α -substituted- β -sulfosuccinic acids having the general formula: ##EQU1## wherein R is hydrogen or an organic moiety, Z is selected from the group consisting of O, S, SO, SO₂, N and NO and M is an alkali metal, ammonium or substituted ammonium cations, useful as **detergents** and/or **detergent** builders and **detergent** compositions containing same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 10 OF 20 USPATFULL on STN
ACCESSION NUMBER: 76:40602 USPATFULL
TITLE: Sulfosuccinate derivatives as **detergent** builders
INVENTOR(S): Lamberti, Vincent, Upper Saddle River, NJ, United States
PATENT ASSIGNEE(S): Lever Brothers Company, New York, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3970653		19760720

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APPLICATION INFO.: US 1975-589960 19750624 (5)
RELATED APPLN. INFO.: Division of Ser. No. US 1973-394613, filed on 5 Sep
1973, now patented, Pat. No. US 3925375 which is a
division of Ser. No. US 1971-156933, filed on 25 Jun
1971, now abandoned

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Evans, Joseph E.
ASSISTANT EXAMINER: Chan, Nicky
LEGAL REPRESENTATIVE: Grant, Arnold
NUMBER OF CLAIMS: 3
EXEMPLARY CLAIM: 1
LINE COUNT: 750

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel salts of α -substituted- β -sulfosuccinic acids having the
general formula: ##EQU1## wherein R is hydrogen or an organic moiety, Z
is selected from the group consisting of O, S, SO, SO₂, N and NO
and M is an alkali metal, ammonium or substituted ammonium cations,
useful as **detergents** and/or **detergent** builders and
detergent compositions containing same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 11 OF 20 USPATFULL on STN
ACCESSION NUMBER: 76:38040 USPATFULL
TITLE: Sulfosuccinate derivatives as **detergent**
builders
INVENTOR(S): Lamberti, Vincent, Upper Saddle River, NJ, United
States
PATENT ASSIGNEE(S): Lever Brothers Company, New York, NY, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3968110		19760706
APPLICATION INFO.:	US 1975-578703		19750519 (5)
RELATED APPLN. INFO.:	Division of Ser. No. US 1973-394613, filed on 5 Sep 1973, now patented, Pat. No. US 3925375 which is a division of Ser. No. US 1971-156933, filed on 25 Jun 1971, now abandoned		

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Thomas, Jr., James O.
ASSISTANT EXAMINER: Chan, Nicky
LEGAL REPRESENTATIVE: Grant, Arnold
NUMBER OF CLAIMS: 4
EXEMPLARY CLAIM: 1
LINE COUNT: 768

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel salts of α -substituted- β -sulfosuccinic acids having the
general formula: ##EQU1## wherein R is hydrogen or an organic moiety, Z
is selected from the group consisting of O, S, SO, SO₂, N and NO
and M is an alkali metal, ammonium or substituted ammonium cations,
useful as **detergents** and/or **detergent** builders and
detergent compositions containing same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 12 OF 20 USPATFULL on STN
ACCESSION NUMBER: 76:27643 USPATFULL
TITLE: Sulfosuccinate derivatives as **detergent**
builders

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INVENTOR(S) : Lamberti, Vincent, Upper Saddle River, NJ, United States
PATENT ASSIGNEE(S) : Lever Brothers Company, New York, NY, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3957775		19760518
APPLICATION INFO.:	US 1974-484920		19740701 (5)
RELATED APPLN. INFO.:	Division of Ser. No. US 1973-394613, filed on 5 Sep 1973, now abandoned which is a division of Ser. No. US 1971-156933, filed on 25 Jun 1971, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Thomas, Jr., James O.		
ASSISTANT EXAMINER:	Chan, Nicky		
LEGAL REPRESENTATIVE:	Grant, Arnold		
NUMBER OF CLAIMS:	2		
EXEMPLARY CLAIM:	1		
LINE COUNT:	748		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel salts of α -substituted- β -sulfosuccinic acids having the general formula: ##EQU1## wherein R is hydrogen or an organic moiety, Z is selected from the group consisting of O, S, SO, SO₂, N and NO and M is an alkali metal, ammonium or substituted ammonium cations, useful as detergents and/or detergent builders and detergent compositions containing same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 13 OF 20 USPATFULL on STN
ACCESSION NUMBER: 76:20153 USPATFULL
TITLE: Sulfosuccinate derivatives as detergent builders
INVENTOR(S) : Lamberti, Vincent, Upper Saddle River, NJ, United States
PATENT ASSIGNEE(S) : Lever Brothers Company, New York, NY, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3950331		19760413
APPLICATION INFO.:	US 1974-484918		19740701 (5)
RELATED APPLN. INFO.:	Division of Ser. No. US 1973-394613, filed on 5 Sep 1973, now Defensive Publication No. which is a division of Ser. No. US 1971-156933, filed on 25 Jun 1971, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Thomas, Jr., James O.		
ASSISTANT EXAMINER:	Chan, Nicky		
LEGAL REPRESENTATIVE:	Grant, Arnold		
NUMBER OF CLAIMS:	7		
EXEMPLARY CLAIM:	1		
LINE COUNT:	774		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel salts of α -substituted- β -sulfosuccinic acids having the general formula: ##EQU1## wherein R is hydrogen or an organic moiety, Z is selected from the group consisting of O, S, SO, SO₂, N and NO and M is an alkali metal, ammonium or substituted ammonium cations, useful as detergents and/or detergent builders and detergent compositions containing same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 14 OF 20 USPATFULL on STN
 ACCESSION NUMBER: 76:6207 USPATFULL
 TITLE: α -Amino- β -sulfosuccinates
 INVENTOR(S): Lamberti, Vincent, Upper Saddle River, NJ, United States
 PATENT ASSIGNEE(S): Lever Brothers Company, New York, NY, United States
 (U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 3936448 19760203
 APPLICATION INFO.: US 1974-484916 19740701 (5)
 RELATED APPLN. INFO.: Division of Ser. No. US 1973-394613, filed on 5 Sep
 1973, now Defensive Publication No. which is a division
 of Ser. No. US 1971-156933, filed on 25 Jun 1971, now
 abandoned
 DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Weinberger, Lorraine A.
 ASSISTANT EXAMINER: Shippin, Michael
 LEGAL REPRESENTATIVE: Grant, Esq., Arnold
 NUMBER OF CLAIMS: 1
 EXEMPLARY CLAIM: 1
 LINE COUNT: 753

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel salts of α -substituted- β -sulfosuccinic acids having the general formula: ##EQU1## wherein R is hydrogen or an organic moiety, Z is selected from the group consisting of O, S, SO, SO₂, N and NO and M is an alkali metal, ammonium or substituted ammonium cations, useful as detergents and/or detergent builders and detergent compositions containing same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 15 OF 20 USPATFULL on STN
 ACCESSION NUMBER: 76:4962 USPATFULL
 TITLE: Sulfosuccinate derivatives as detergent
 builders
 INVENTOR(S): Lamberti, Vincent, Upper Saddle River, NJ, United States
 PATENT ASSIGNEE(S): Lever Brothers Company, New York, NY, United States
 (U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 3935206 19760127
 APPLICATION INFO.: US 1974-484917 19740701 (5)
 RELATED APPLN. INFO.: Division of Ser. No. US 1973-394613, filed on 5 Sep
 1973, now Defensive Publication No. which is a division
 of Ser. No. US 1971-156933, filed on 25 Jun 1971, now
 abandoned
 DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Helfin, Bernard
 ASSISTANT EXAMINER: Chan, Nicky
 LEGAL REPRESENTATIVE: Grant, Esq., Arnold
 NUMBER OF CLAIMS: 1
 EXEMPLARY CLAIM: 1
 LINE COUNT: 729

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CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel salts of α -substituted- β -sulfosuccinic acids having the general formula: ##EQU1## wherein R is hydrogen or an organic moiety, Z is selected from the group consisting of O, S, SO, SO₂, N and NO and M is an alkali metal, ammonium or substituted ammonium cations, useful as **detergents** and/or **detergent** builders and **detergent** compositions containing same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 16 OF 20 USPATFULL on STN
ACCESSION NUMBER: 75:67246 USPATFULL
TITLE: Sulfosuccinate derivatives as **detergent** builders
INVENTOR(S): Lamberti, Vincent, Upper Saddle River, NJ, United States
PATENT ASSIGNEE(S): Lever Brothers Company, New York, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3925375		19751209
APPLICATION INFO.:	US 1973-394613		19730905 (5)
RELATED APPLN. INFO.:	Division of Ser. No. US 1971-156933, filed on 25 Jun 1971, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Thomas, Jr., James O.		
ASSISTANT EXAMINER:	Chan, Nicky		
LEGAL REPRESENTATIVE:	Grant, Esq., Arnold		
NUMBER OF CLAIMS:	7		
EXEMPLARY CLAIM:	1		
LINE COUNT:	773		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel salts of α -substituted- β -sulfosuccinic acids having the general formula: ##EQU1## wherein R is hydrogen or an organic moiety, Z is selected from the group consisting of O, S, SO, SO₂, N and NO and M is an alkali metal, ammonium or substituted ammonium cations, useful as **detergents** and/or **detergent** builders and **detergent** compositions containing same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 17 OF 20 USPATFULL on STN
ACCESSION NUMBER: 75:64131 USPATFULL
TITLE: Sulfosuccinate derivatives as **detergent** builders
INVENTOR(S): Lamberti, Vincent, Upper Saddle River, NJ, United States
PATENT ASSIGNEE(S): Lever Brothers Company, New York, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3922272		19751125
APPLICATION INFO.:	US 1974-484744		19740701 (5)
RELATED APPLN. INFO.:	Division of Ser. No. US 1973-394613, filed on 5 Sep 1973, now Defensive Publication No. which is a division of Ser. No. US 1971-156933, filed on 25 Jun 1971, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		

10/645,772

PRIMARY EXAMINER: Thomas, Jr., James O.
ASSISTANT EXAMINER: Chan, Nicky
LEGAL REPRESENTATIVE: Grant, Esq., Arnold
NUMBER OF CLAIMS: 5
EXEMPLARY CLAIM: 1
LINE COUNT: 760

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel salts of α -substituted- β -sulfosuccinic acids having the general formula: ##EQU1## wherein R is hydrogen or an organic moiety, Z is selected from the group consisting of O, S, SO, SO₂, N and NO and M is an alkali metal, ammonium or substituted ammonium cations, useful as **detergents** and/or **detergent** builders and **detergent** compositions containing same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 18 OF 20 USPATFULL on STN
ACCESSION NUMBER: 75:64130 USPATFULL
TITLE: Sulfosuccinate derivatives as **detergent** builders
INVENTOR(S): Lamberti, Vincent, Upper Saddle River, NJ, United States
PATENT ASSIGNEE(S): Lever Brothers Company, New York, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3922271		19751125
APPLICATION INFO.:	US 1974-484741		19740701 (5)
RELATED APPLN. INFO.:	Division of Ser. No. US 1973-394613, filed on 5 Sep 1973, now Defensive Publication No. which is a division of Ser. No. US 1971-156933, filed on 25 Jun 1971, now abandoned		

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Thomas, Jr., James O.
ASSISTANT EXAMINER: Chan, Nicky
LEGAL REPRESENTATIVE: Grant, Esq., Arnold
NUMBER OF CLAIMS: 8
EXEMPLARY CLAIM: 1
LINE COUNT: 765

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel salts of α -substituted- β -sulfosuccinic acids having the general formula: ##EQU1## wherein R is hydrogen or an organic moiety, Z is selected from the group consisting of O, S, SO, SO₂, N and NO and M is an alkali metal, ammonium or substituted ammonium cations, useful as **detergents** and/or **detergent** builders and **detergent** compositions containing same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 19 OF 20 USPATFULL on STN
ACCESSION NUMBER: 75:59436 USPATFULL
TITLE: Sulfosuccinate derivatives as **detergent** builders
INVENTOR(S): Lamberti, Vincent, Upper Saddle River, NJ, United States
PATENT ASSIGNEE(S): Lever Brothers Company, New York, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE

10/645,772

PATENT INFORMATION: US 3917601 19751104
APPLICATION INFO.: US 1974-484919 19740701 (5)
RELATED APPLN. INFO.: Division of Ser. No. US 1973-394613, filed on 5 Sep
1973, now Defensive Publication No. which is a division
of Ser. No. US 1971-156933, filed on 25 Jun 1971, now
abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Thomas, Jr., James O.
ASSISTANT EXAMINER: Chan, Nicky
LEGAL REPRESENTATIVE: Grant, Esq., Arnold
NUMBER OF CLAIMS: 1
EXEMPLARY CLAIM: 1
LINE COUNT: 749

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel salts of α -substituted- β -sulfosuccinic acids having the
general formula: ##EQU1## wherein R is hydrogen or an organic moiety, Z
is selected from the group consisting of O, S, SO, SO₂, N and NO
and M is an alkali metal, ammonium or substituted ammonium cations,
useful as detergents and/or detergent builders and
detergent compositions containing same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 20 OF 20 USPATFULL on STN
ACCESSION NUMBER: 75:54465 USPATFULL
TITLE: Sulfosuccinate derivatives as detergent
builders
INVENTOR(S): Lamberti, Vincent, Upper Saddle River, NJ, United
States
PATENT ASSIGNEE(S): Lever Brothers Company, New York, NY, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3912663		19751014
APPLICATION INFO.:	US 1973-401482		19730927 (5)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1971-156933, filed on 25 Jun 1971, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Guynn, Herbert B.		
LEGAL REPRESENTATIVE:	Grant, Arnold		
NUMBER OF CLAIMS:	23		
EXEMPLARY CLAIM:	1		
LINE COUNT:	864		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel salts of α -substituted- β -sulfosuccinic acids having the
general formula: ##EQU1## wherein R is hydrogen or an organic moiety, Z
is selected from the group consisting of O, S, SO, SO₂, N and NO
and M is an alkali metal, ammonium or substituted ammonium cations,
useful as detergents and/or detergent builders and
detergent compositions containing same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> s ethyl(p)3(p)mercaptobutyrate?
370146 ETHYL
3778865 3
89 MERCAPTOBUTYRATE?
L4 49 ETHYL(P)3(P)MERCAPTOBUTYRATE?

10/645,772

=> S 13 and 14
L5 20 L3 AND L4